

**THIS PAGE IS INSERTED BY OIPE SCANNING
AND IS NOT PART OF THE OFFICIAL RECORD**

Best Available Images

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

BLACK BORDERS

TEXT CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT

BLURRY OR ILLEGIBLE TEXT

SKEWED/SLANTED IMAGES

COLORED PHOTOS HAVE BEEN RENDERED INTO BLACK AND WHITE

VERY DARK BLACK AND WHITE PHOTOS

UNDECIPHERABLE GRAY SCALE DOCUMENTS

**IMAGES ARE THE BEST AVAILABLE
COPY. AS RESCANNING *WILL NOT*
CORRECT IMAGES, PLEASE DO NOT
REPORT THE IMAGES TO THE
PROBLEM IMAGE BOX.**

FIG. 1A (PRIOR ART)

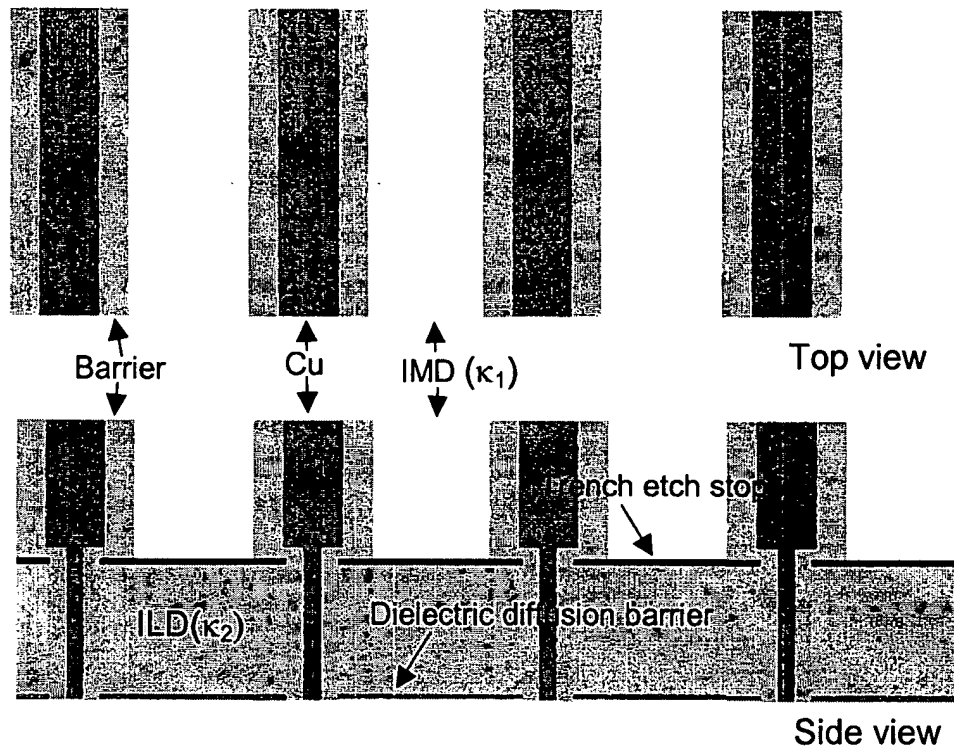
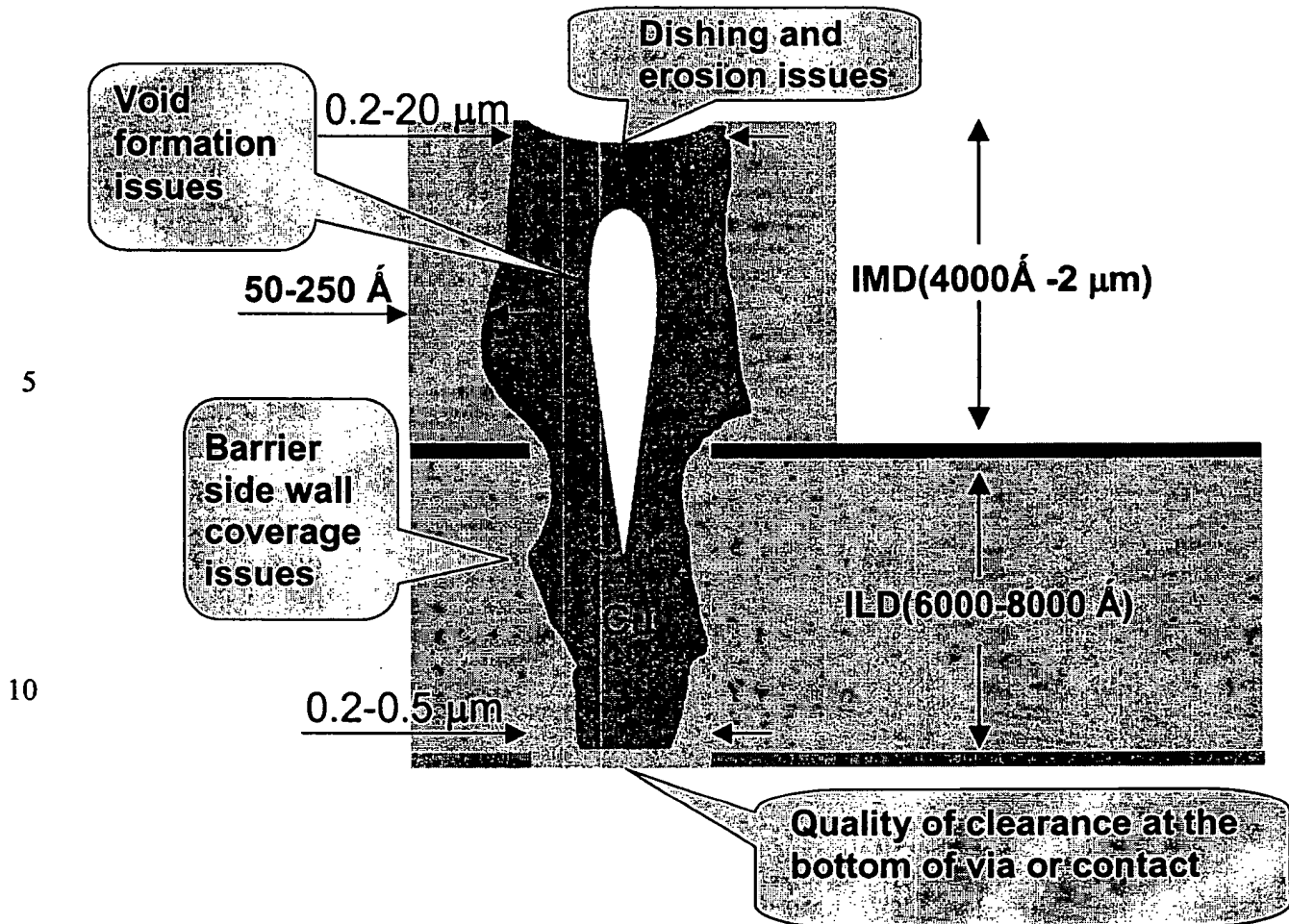


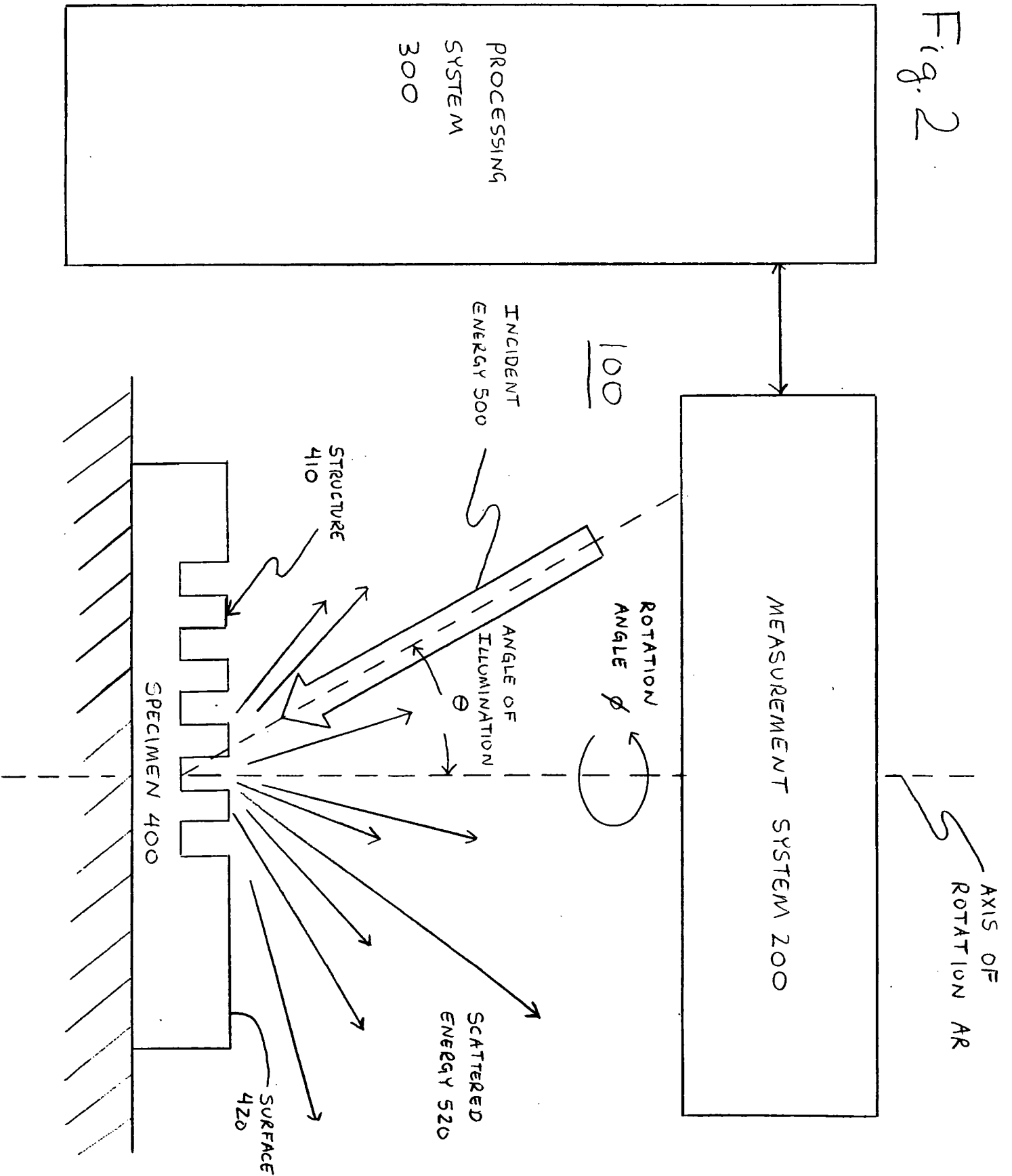
FIG. 1B (PRIOR ART)

FIG. 1C



PRIOR ART

Fig. 2



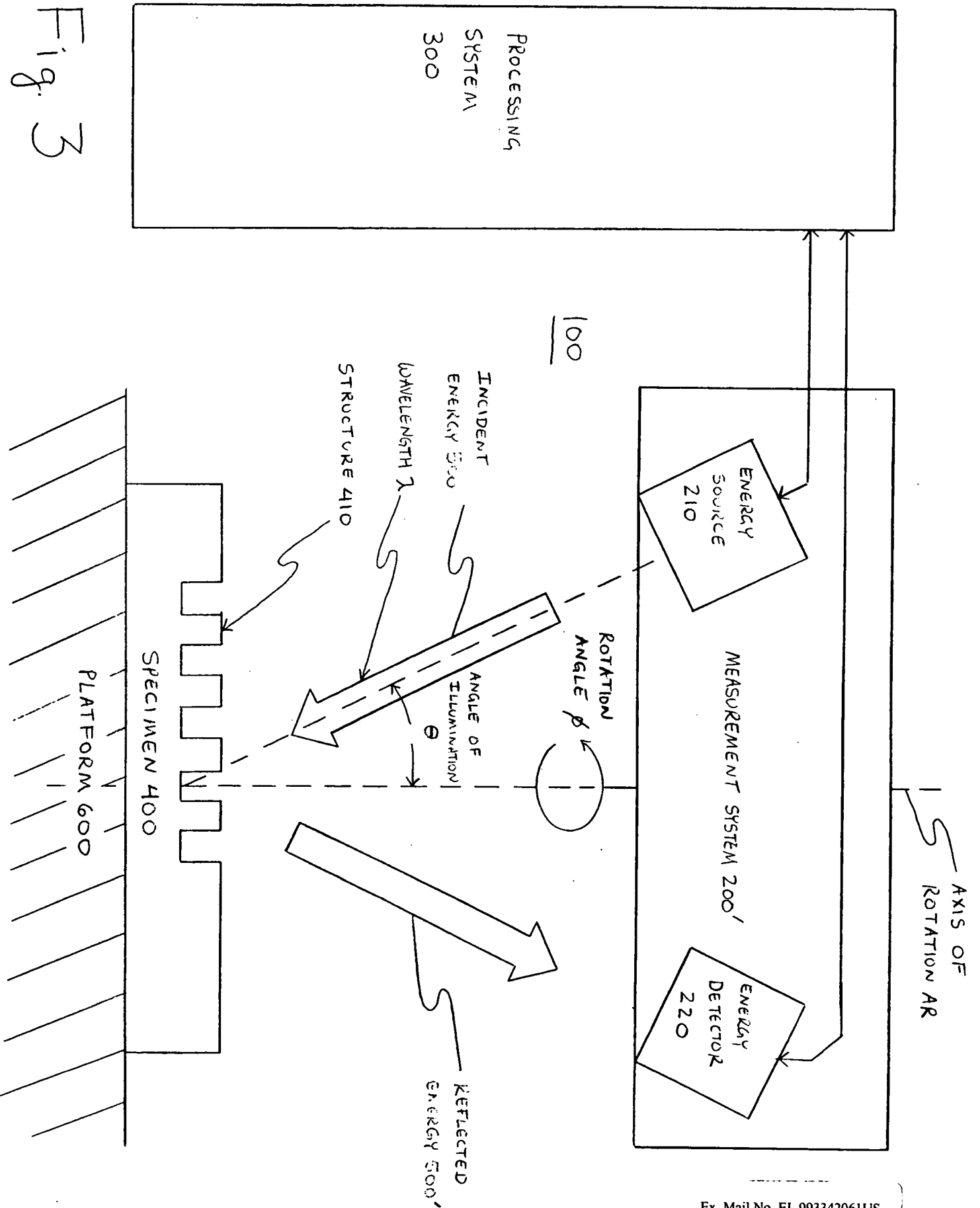
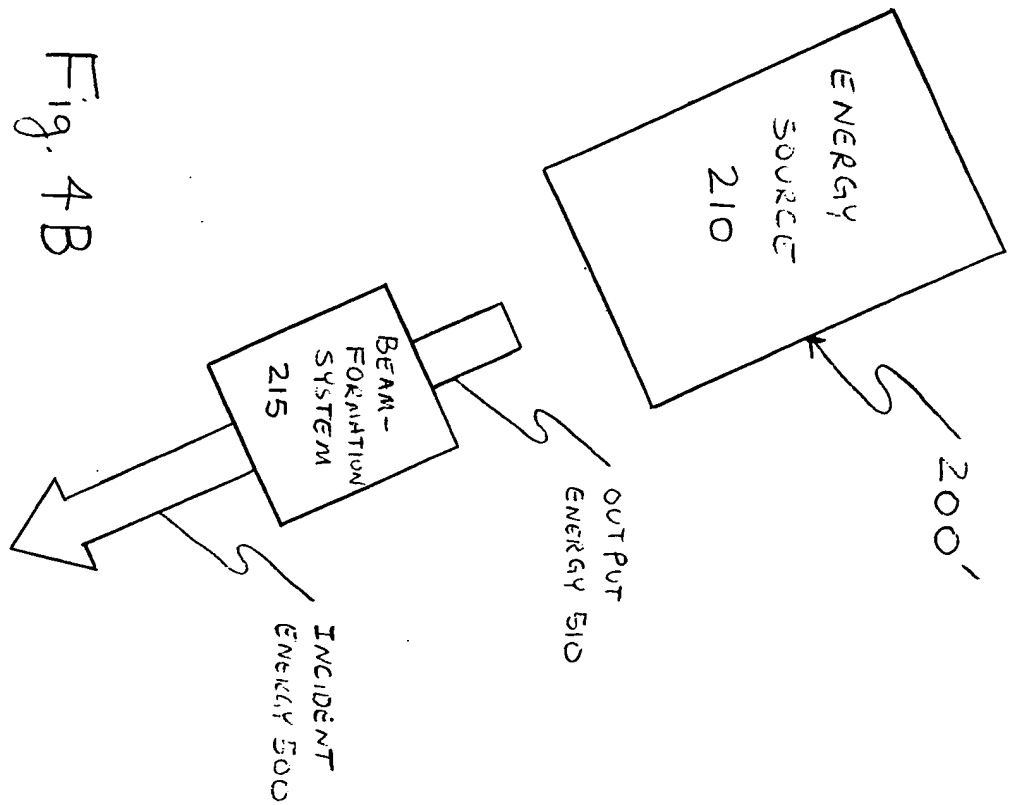
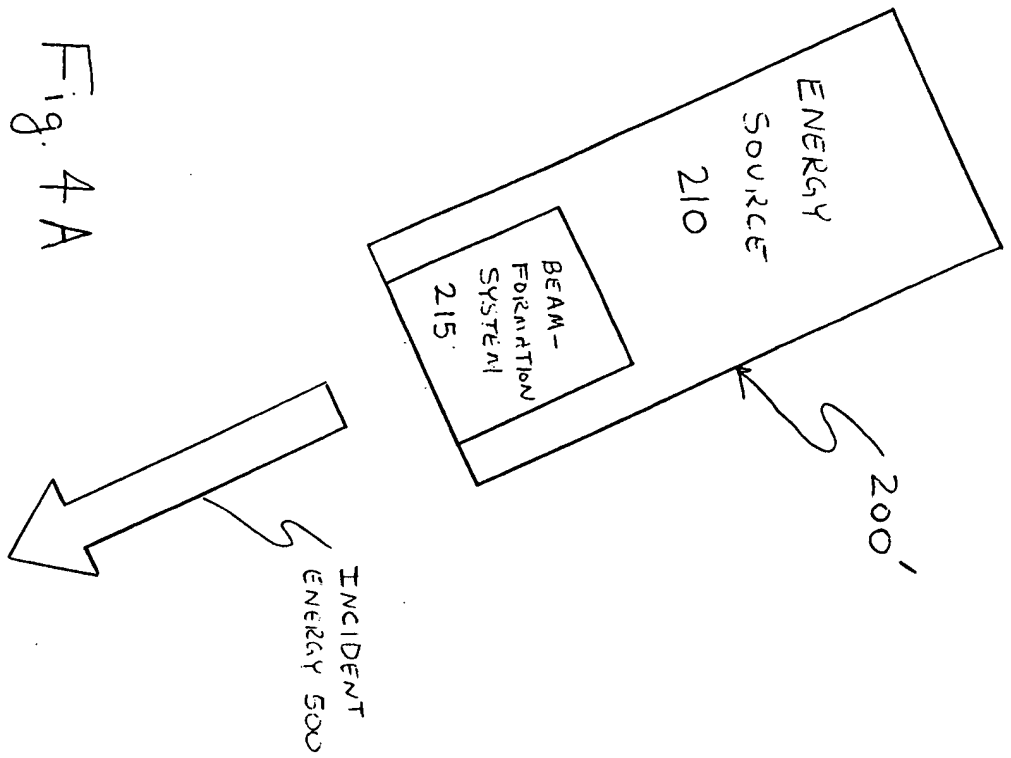


Fig. 3



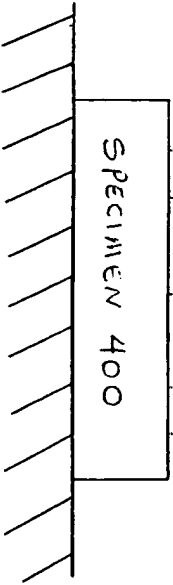


Fig. 5A

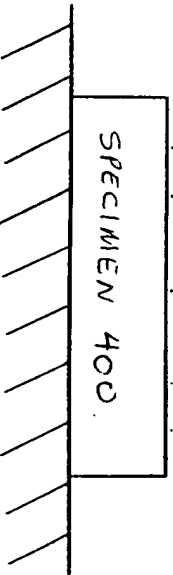
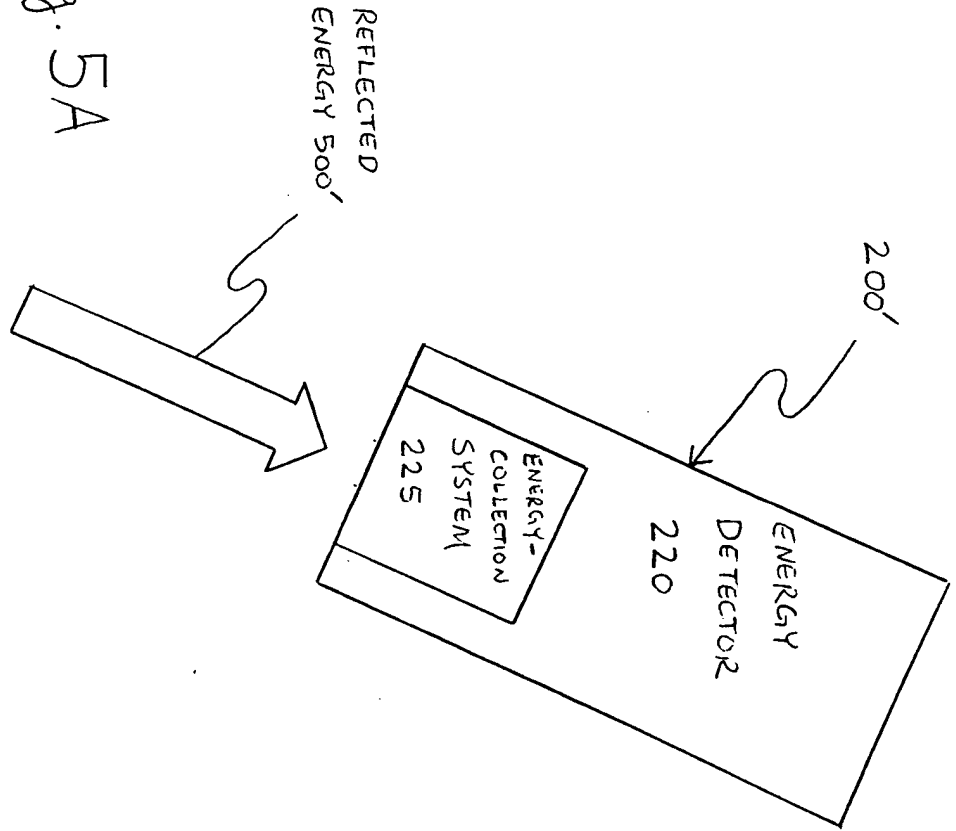
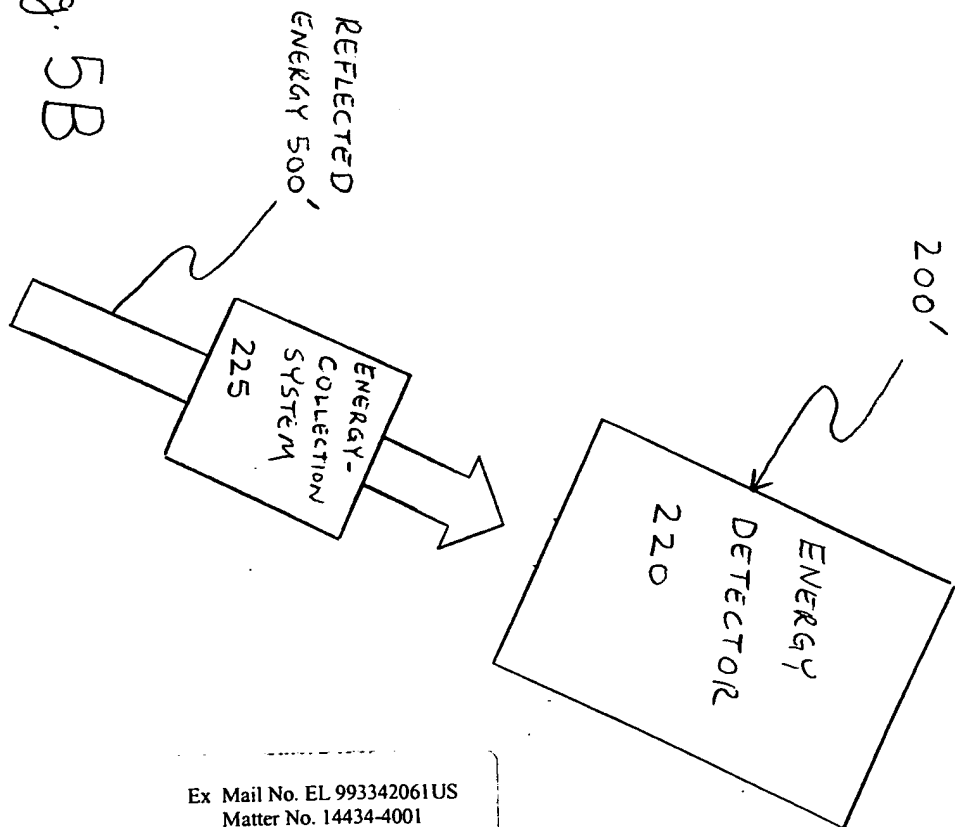
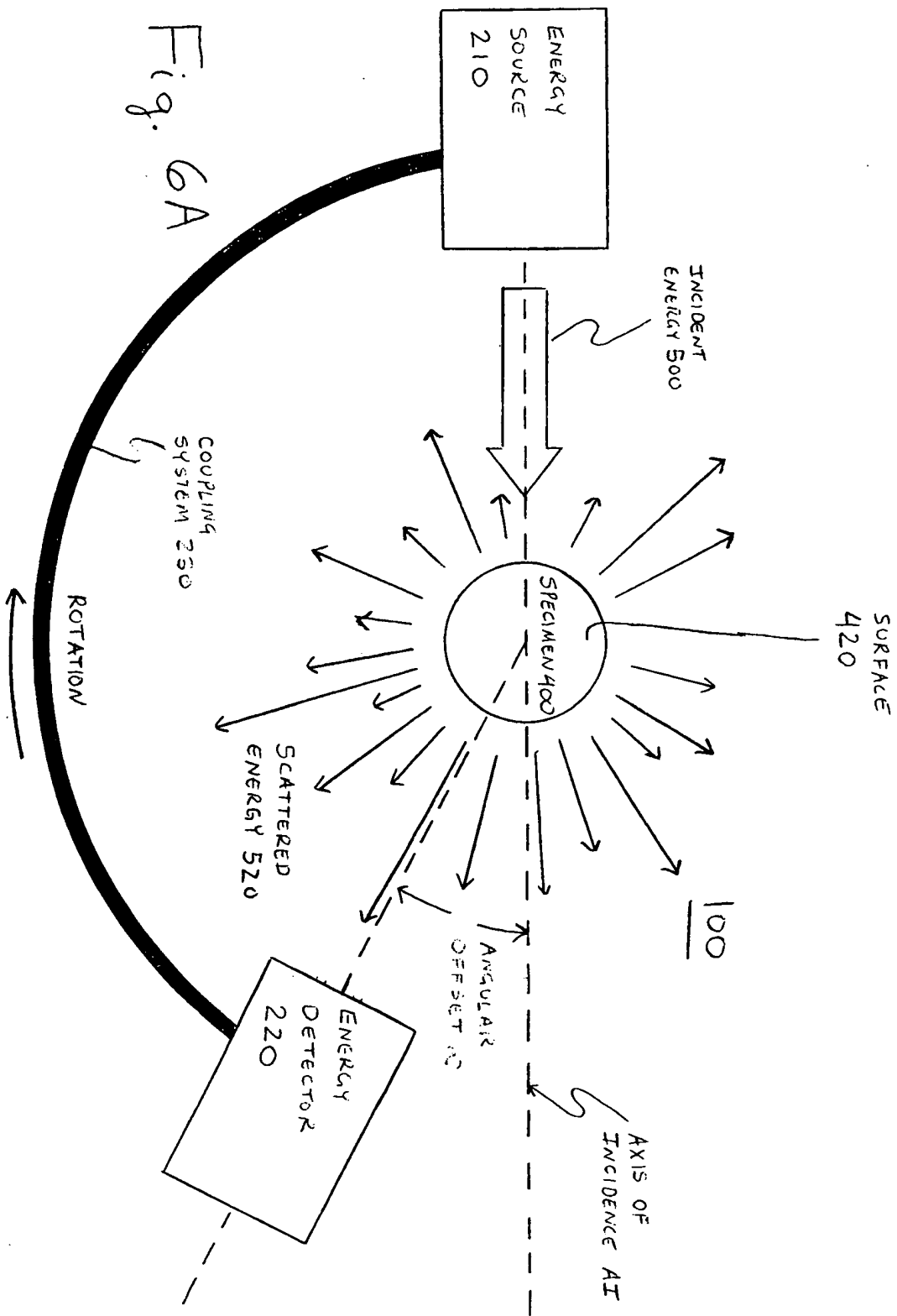


Fig. 5B





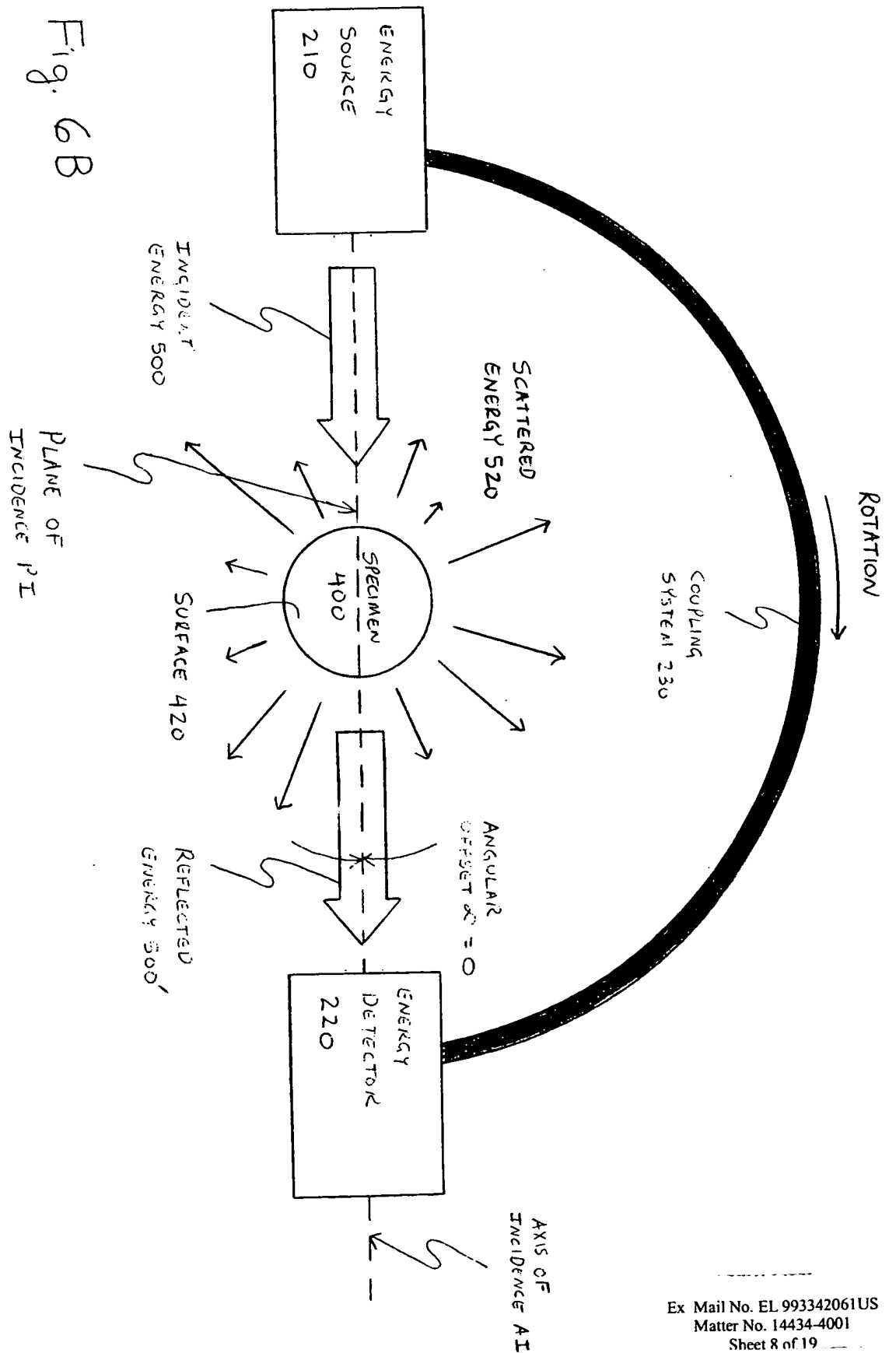


Fig. 6B

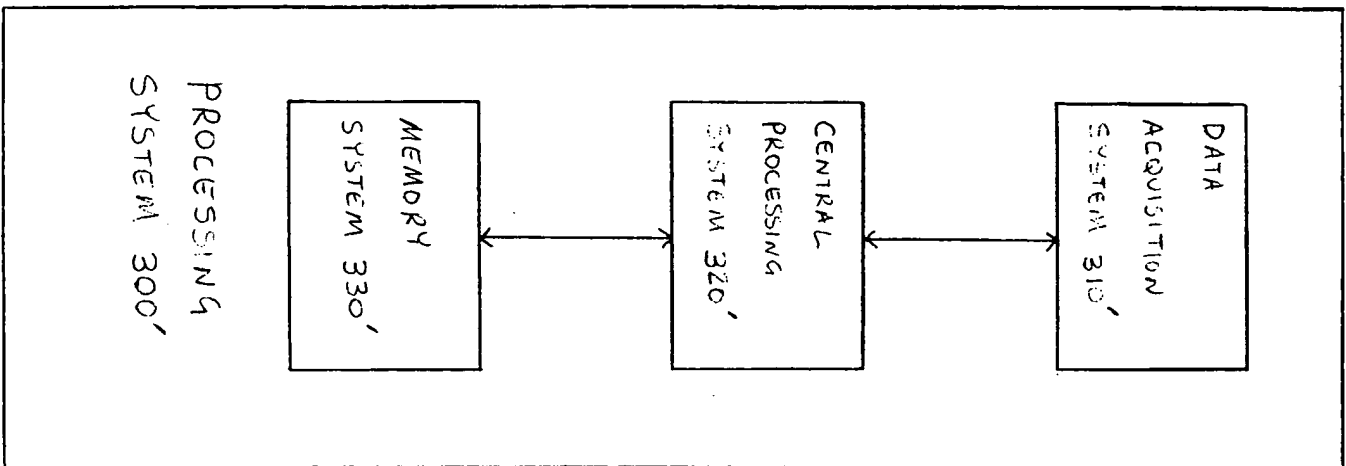
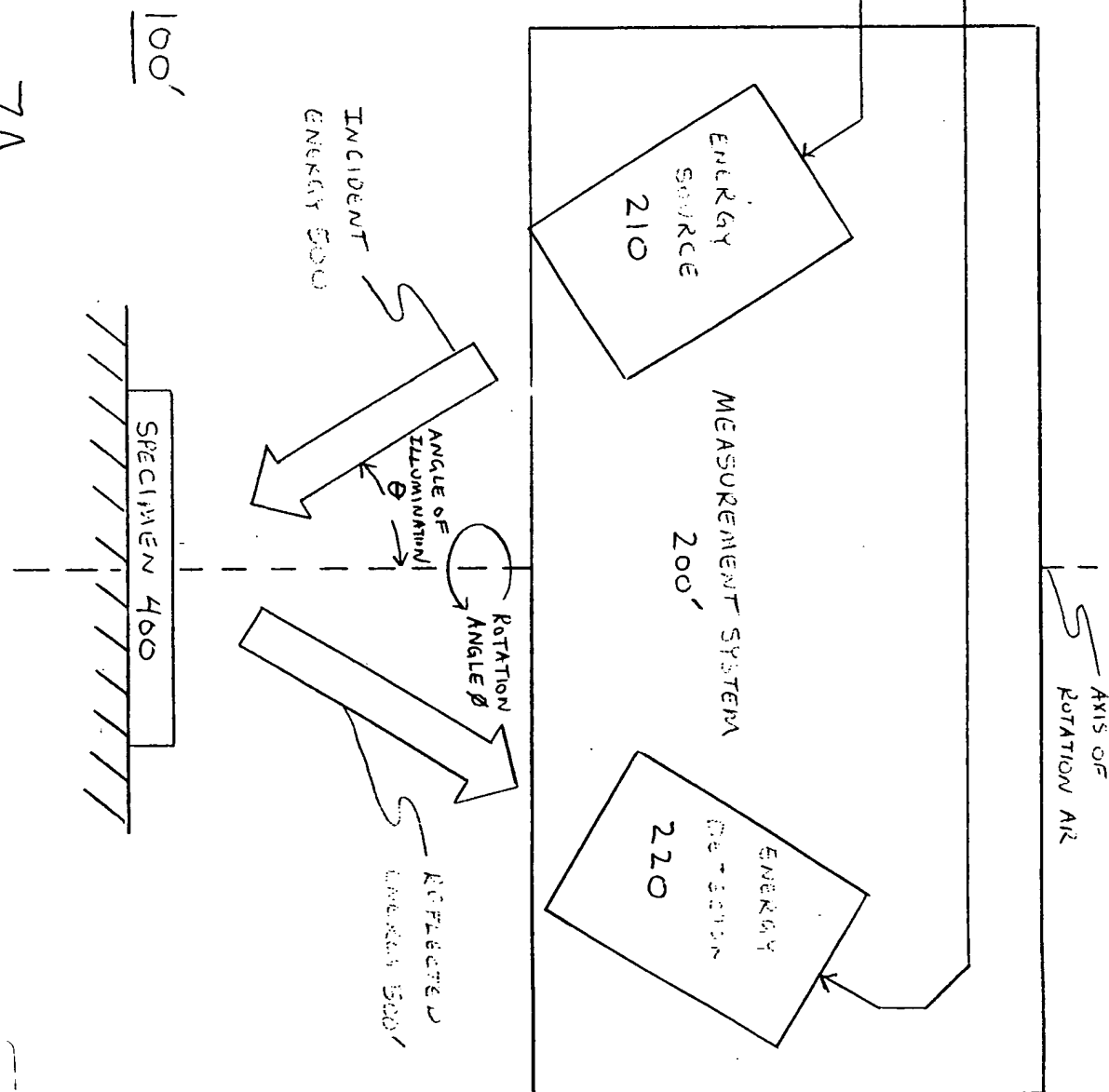


Fig. 7A



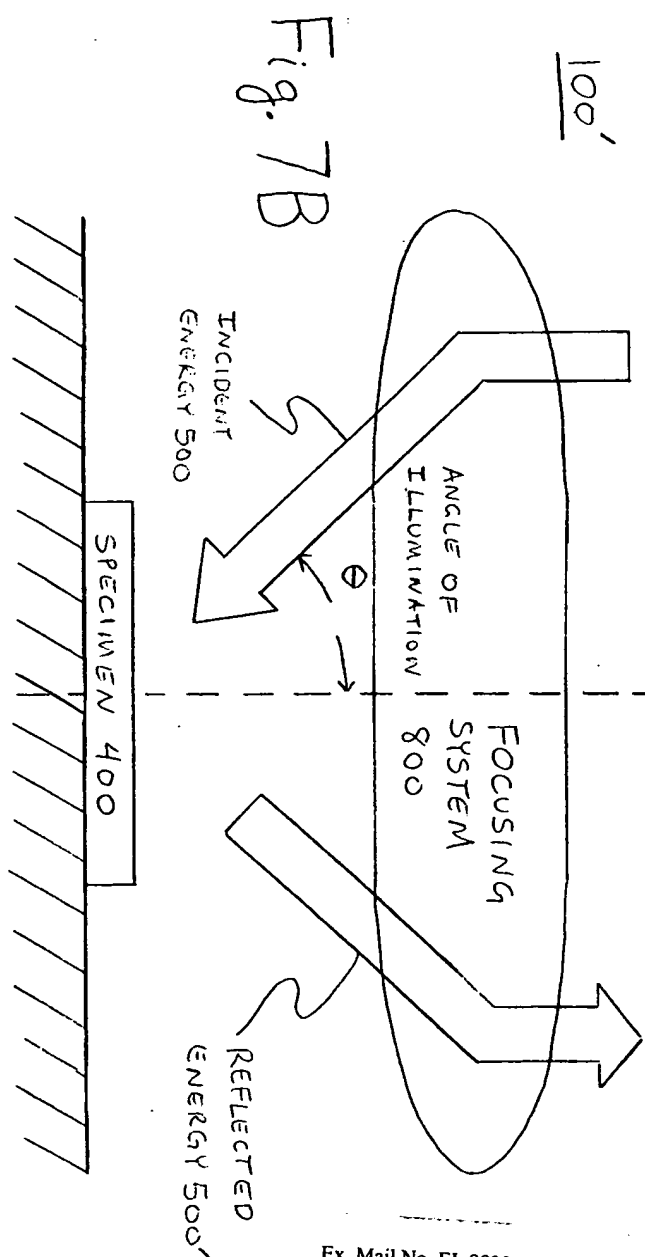
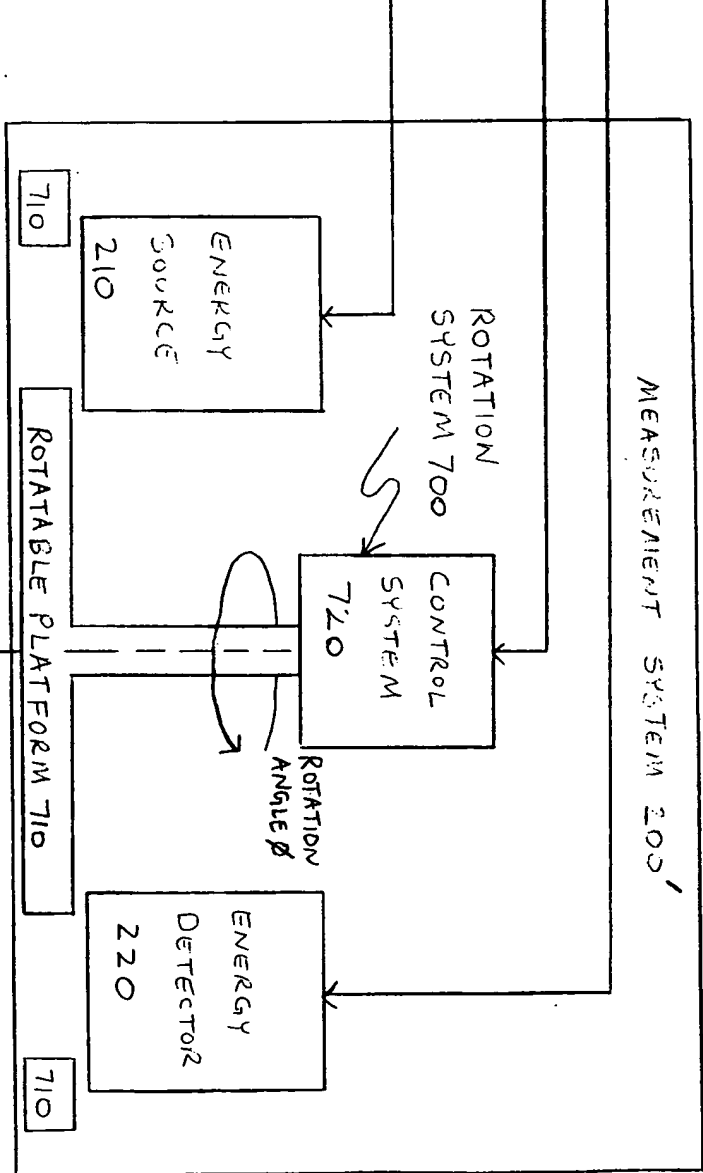
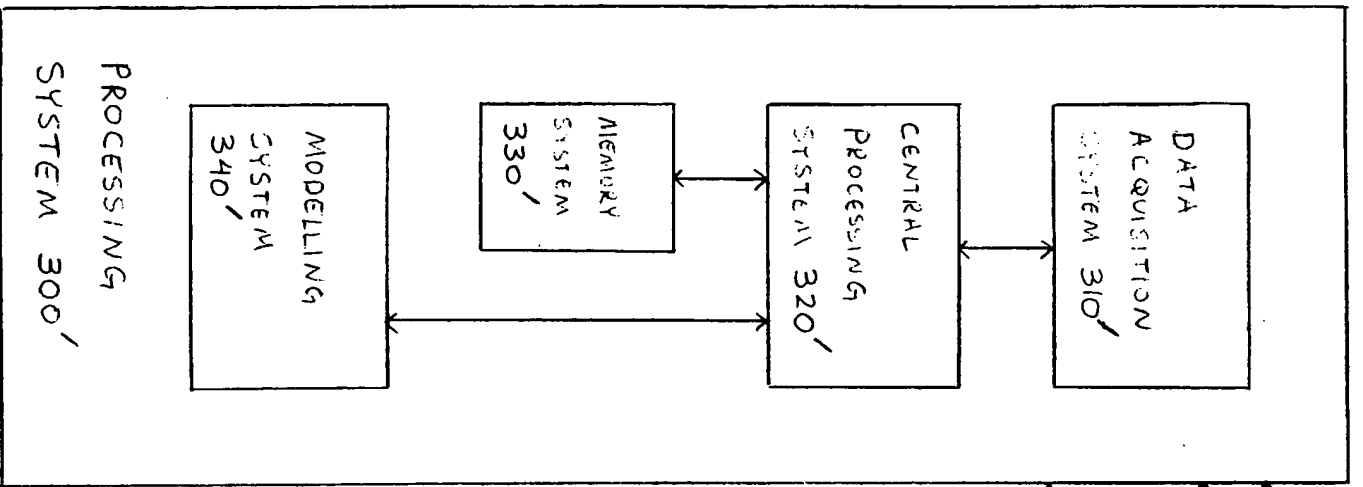
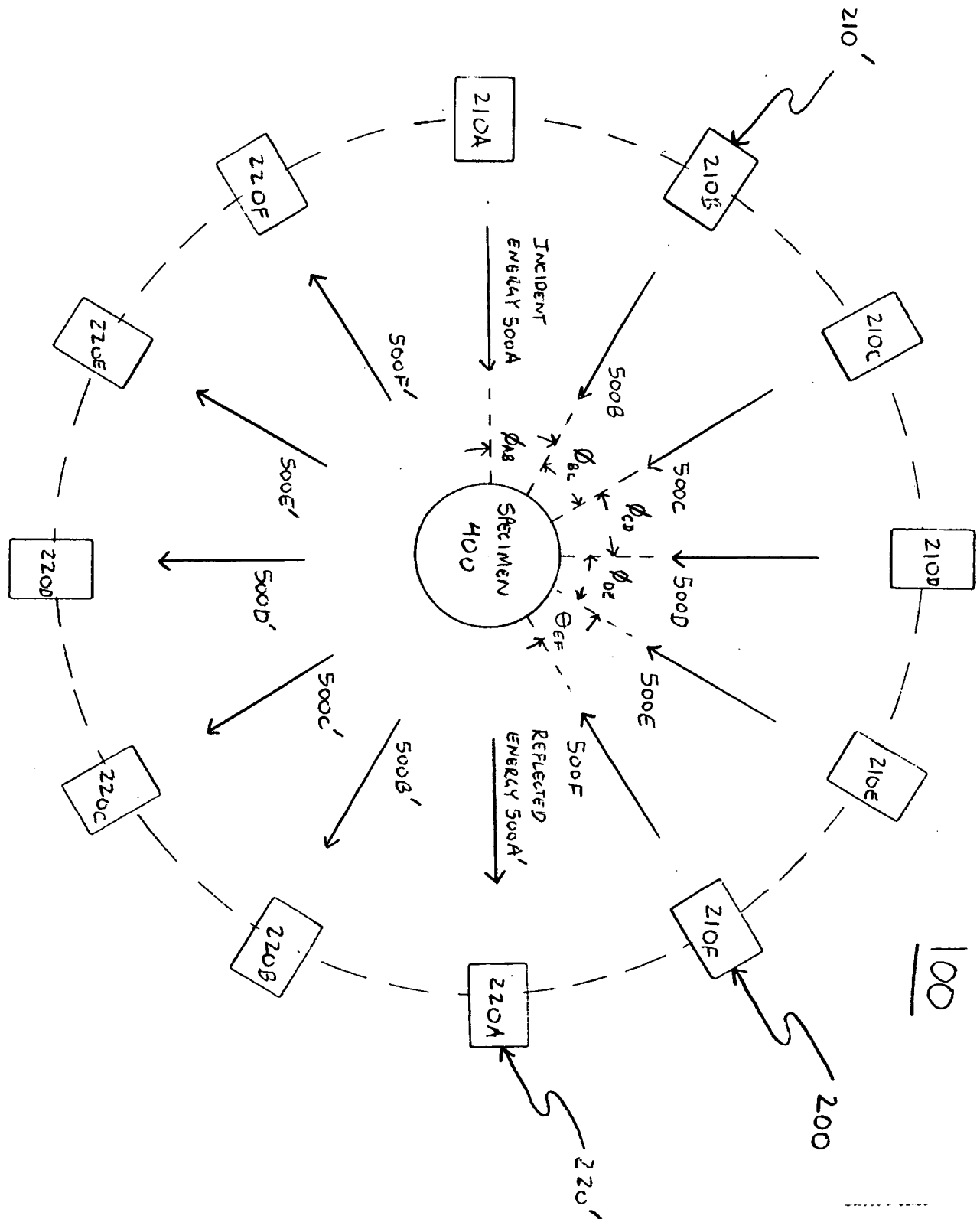


Fig. 8



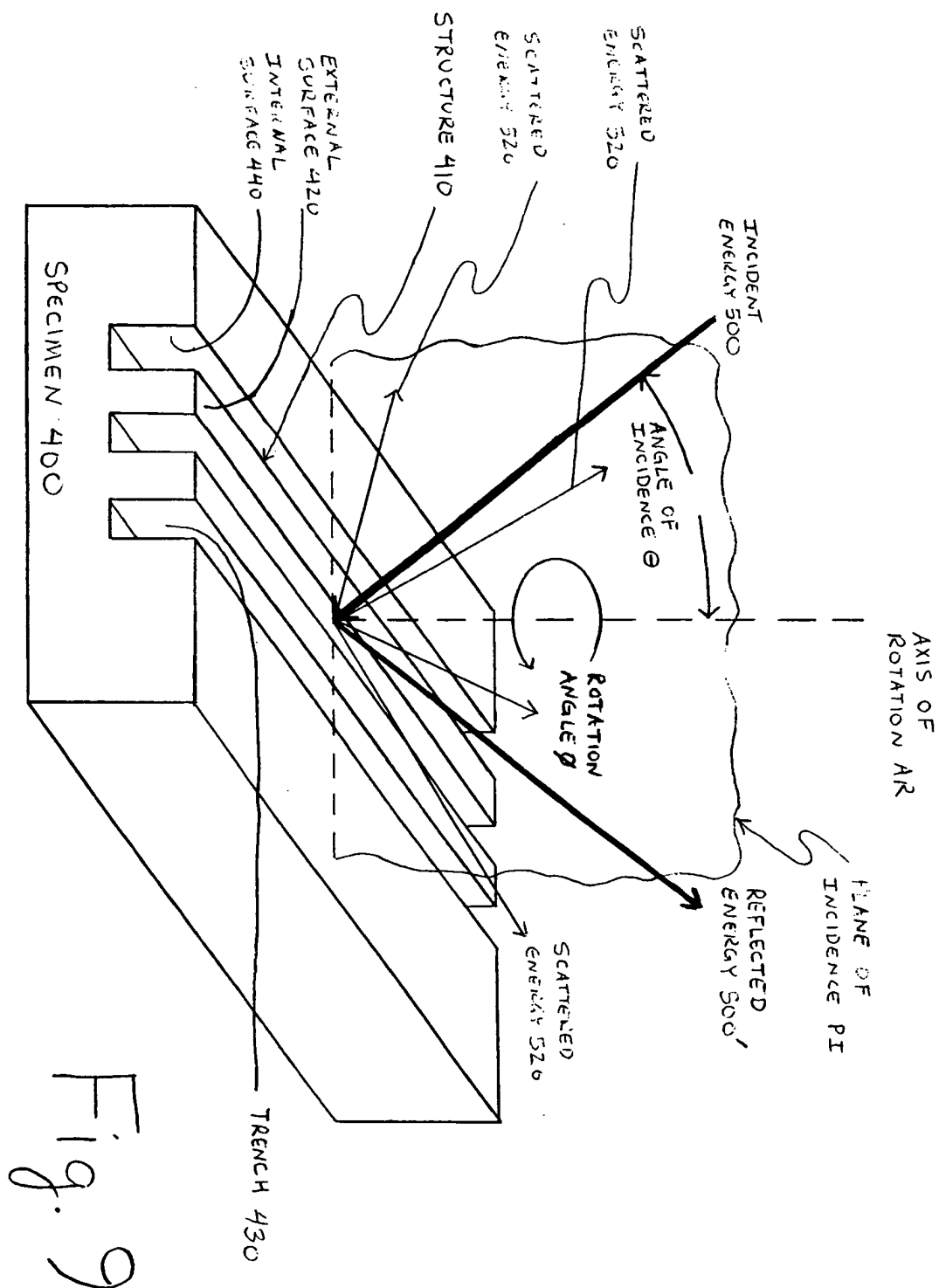


Fig. 9

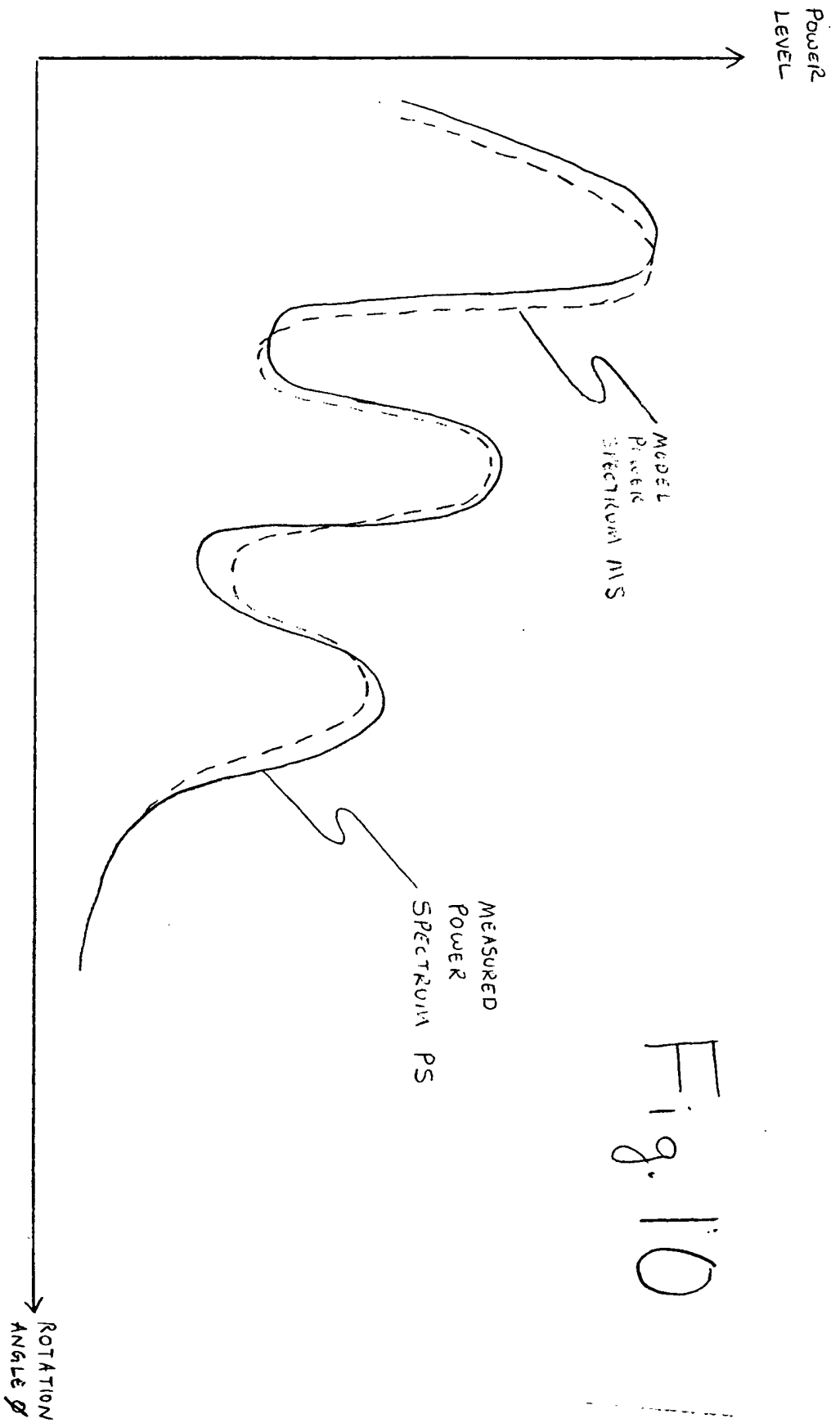
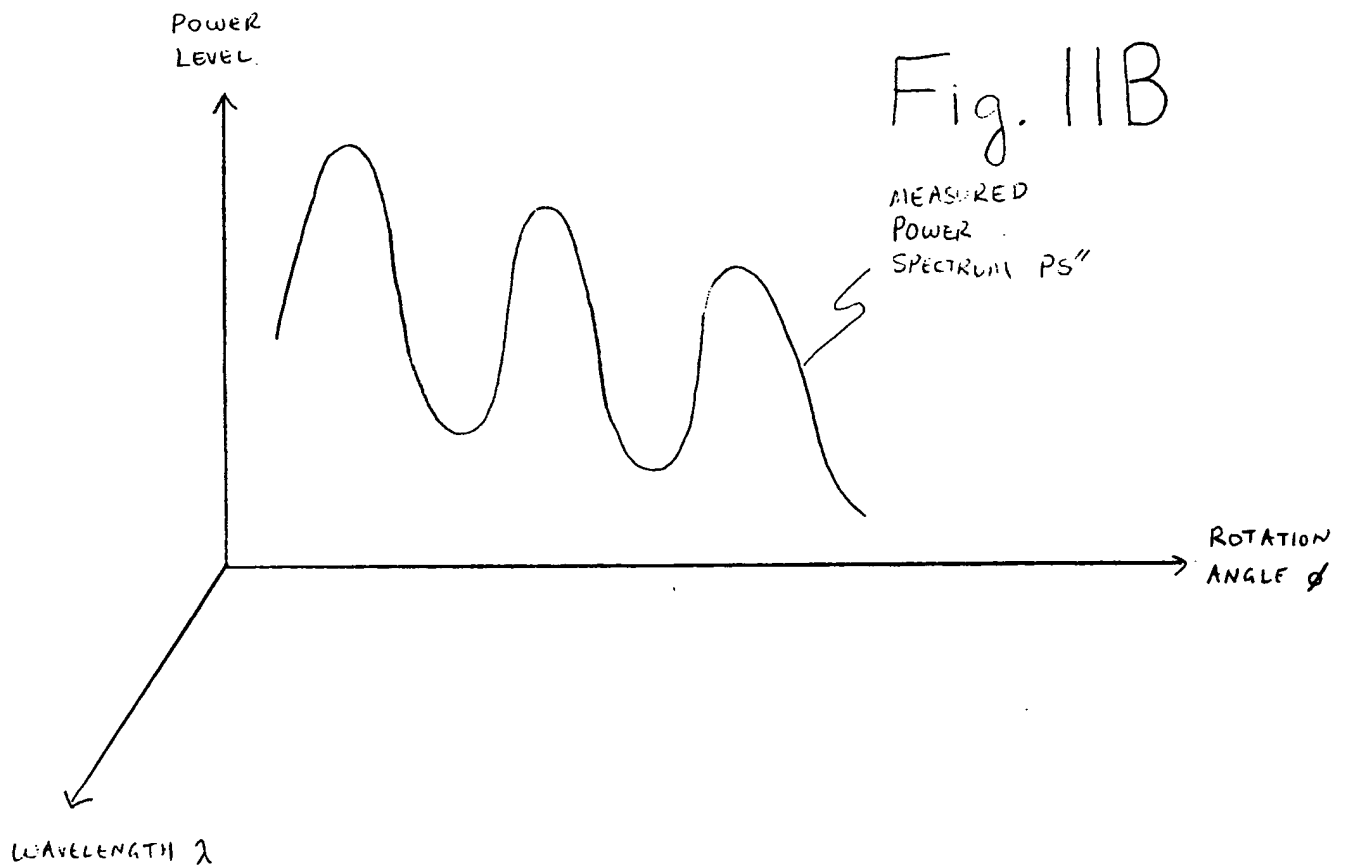
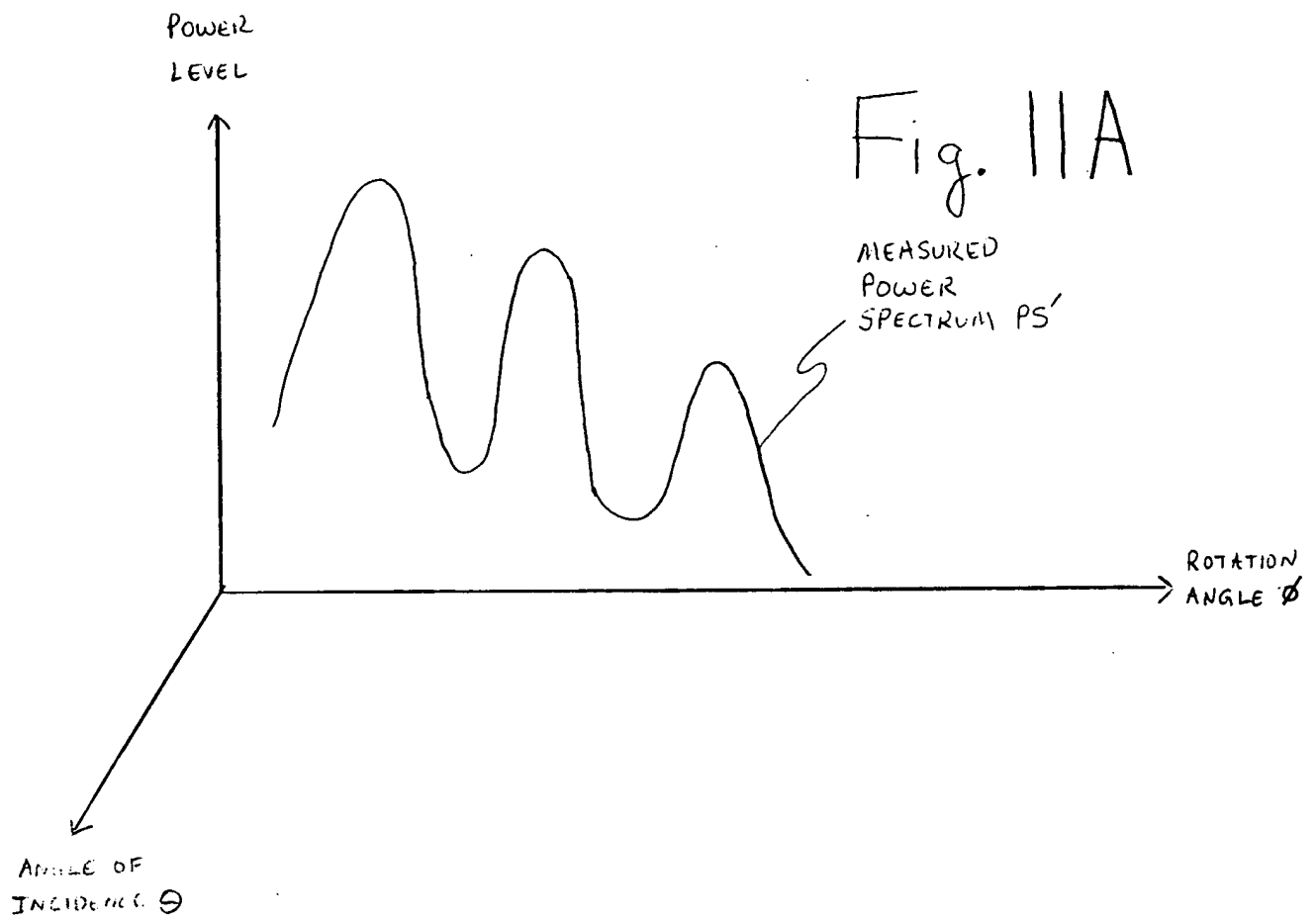


Fig. 10



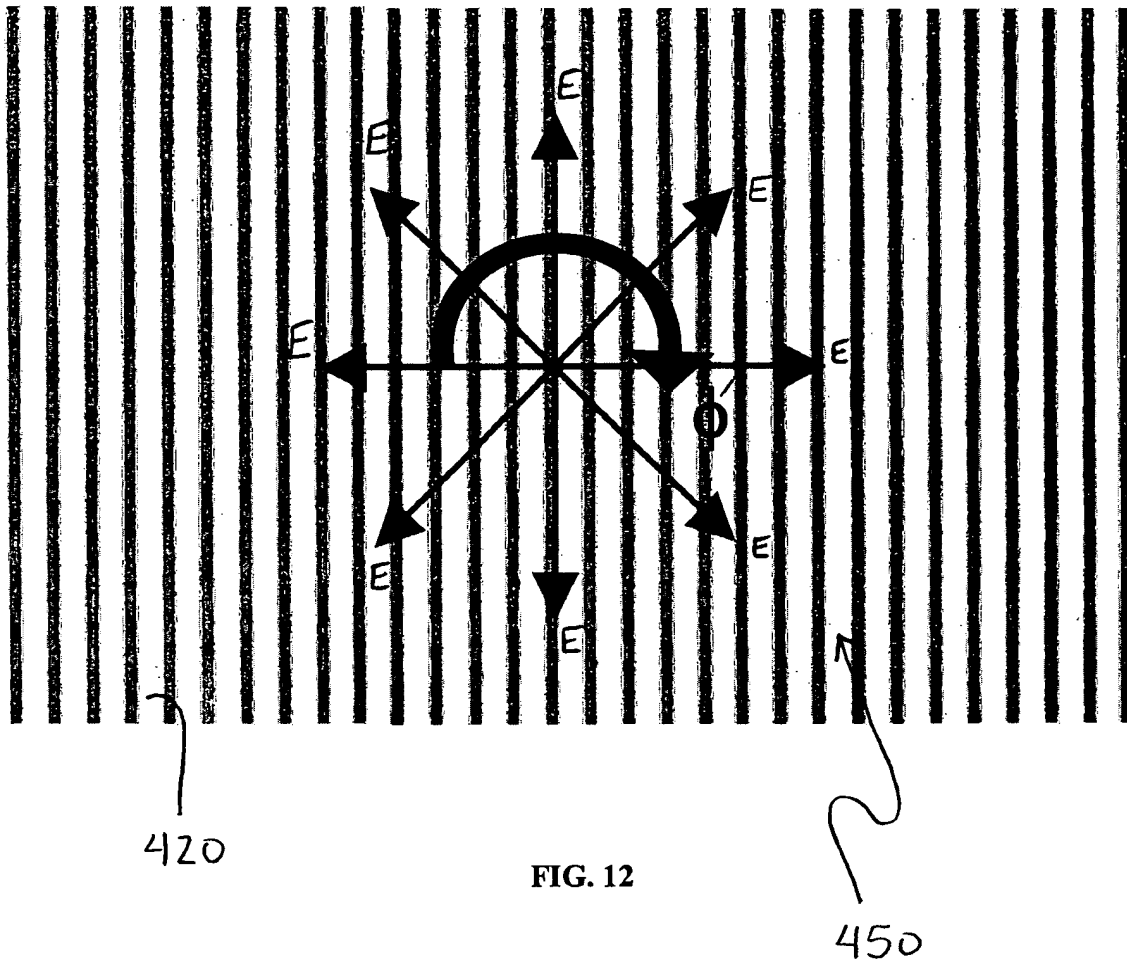
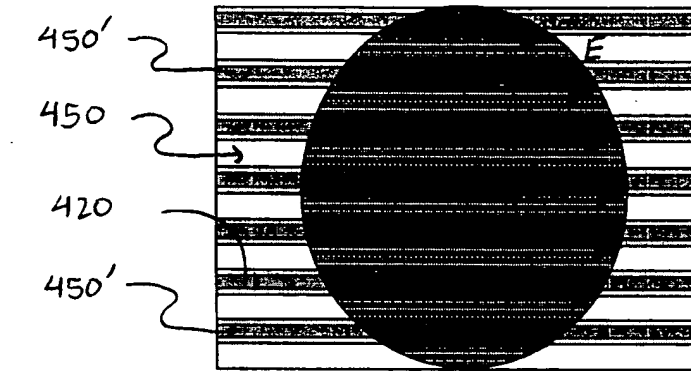
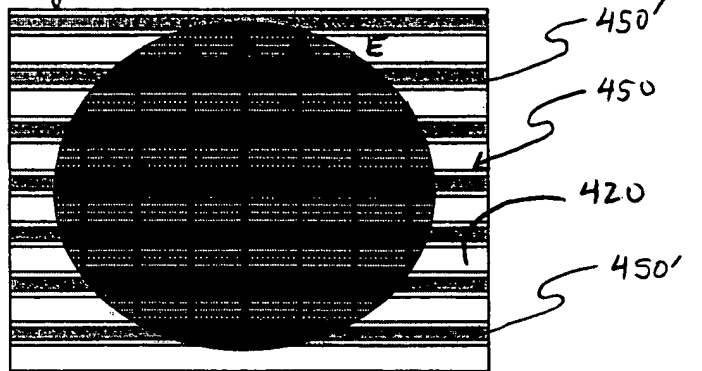


Fig. 13A



$\phi_s = 0^\circ$

Fig. 13B

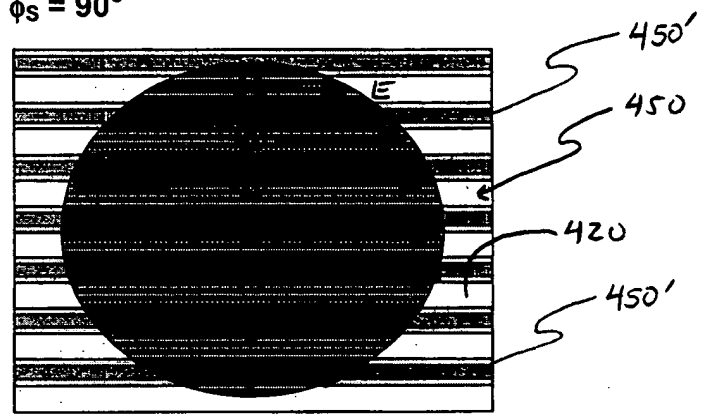


$\phi_s = 90^\circ$



$\phi_p = 0^\circ$

Fig. 13C



$\phi_p = 90^\circ$

Fig. 13D

FIGS. 13A-D

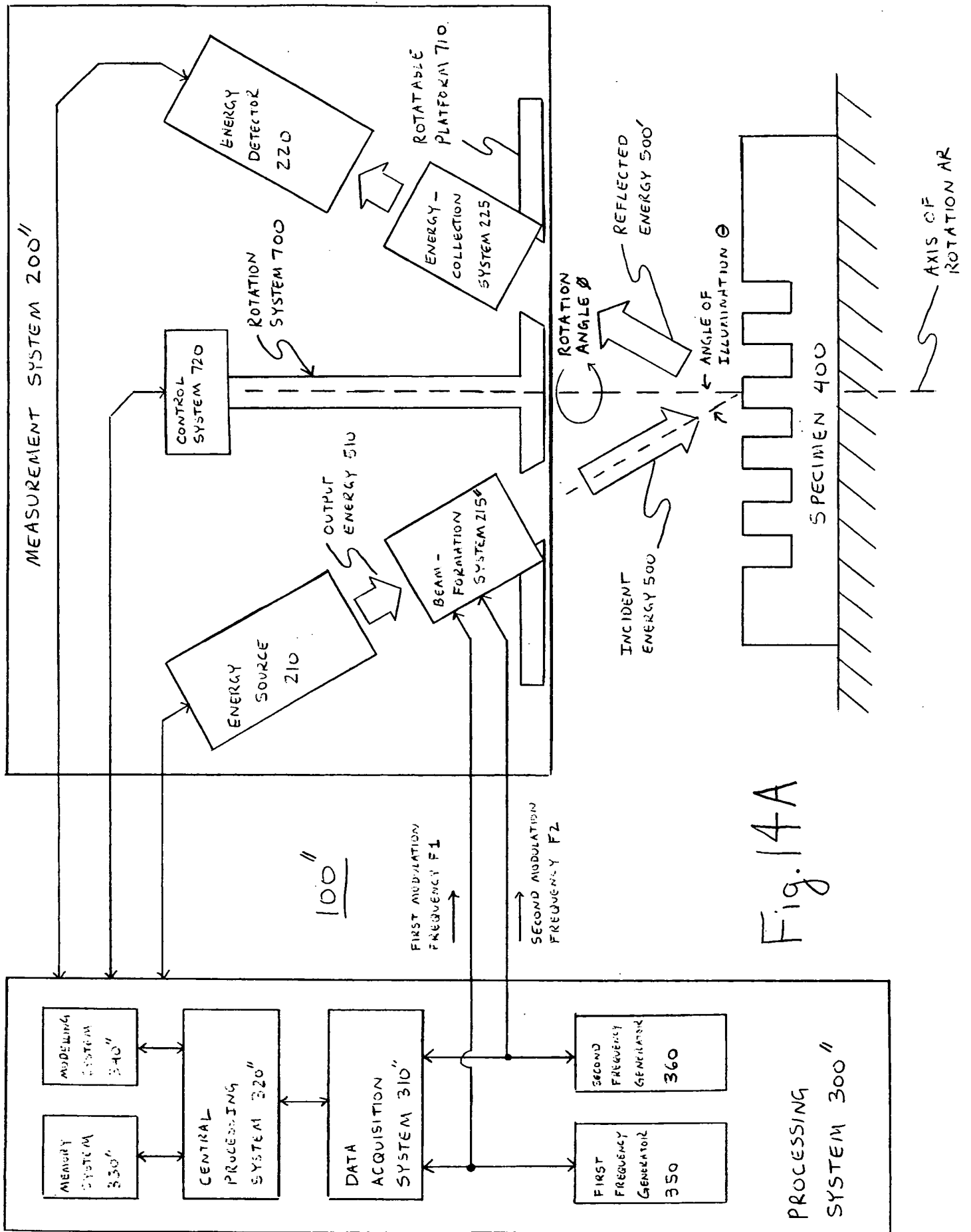


Fig. 14A

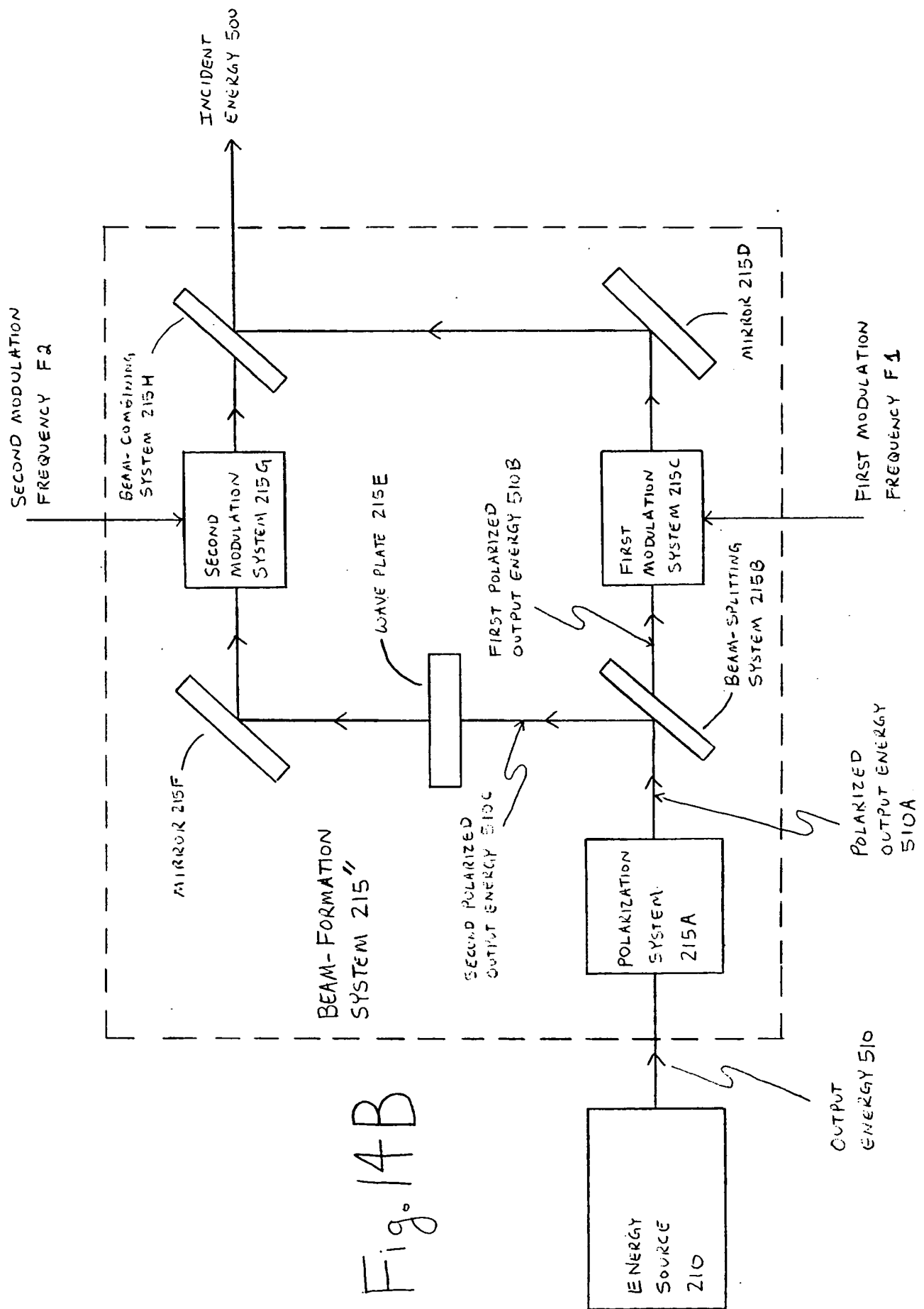


Fig. 14B

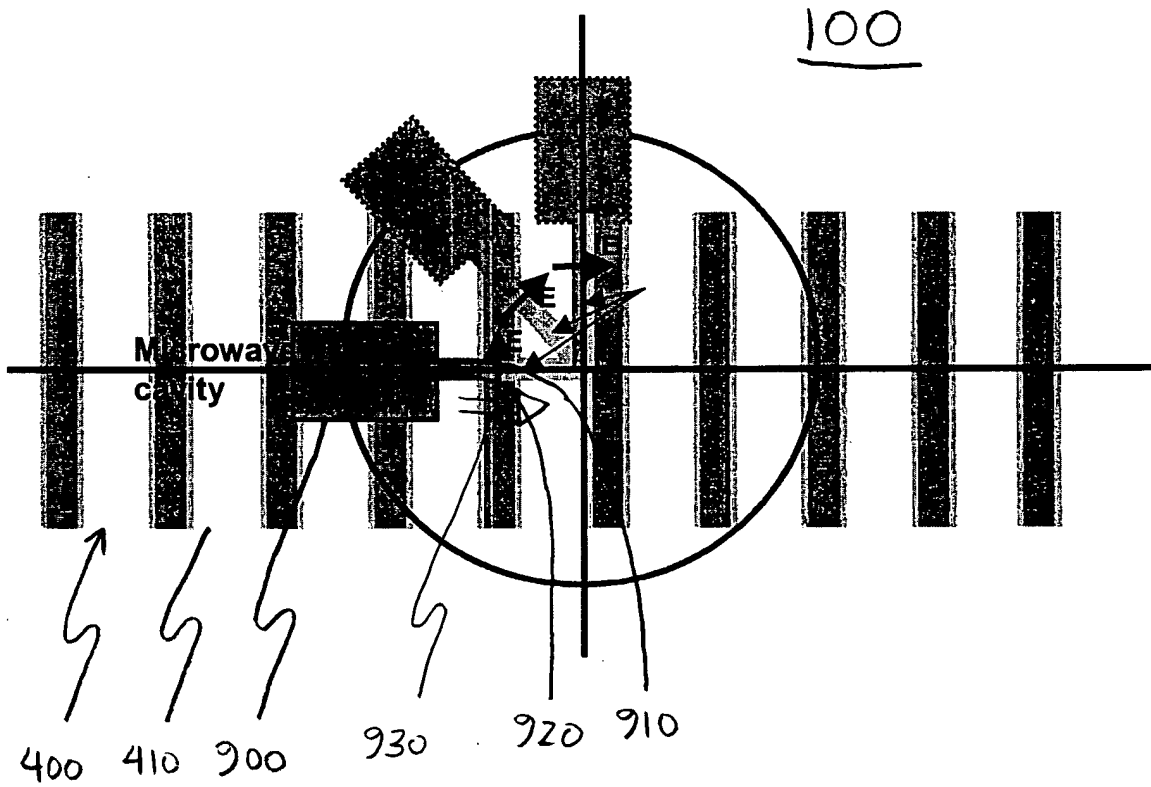


FIG. 15